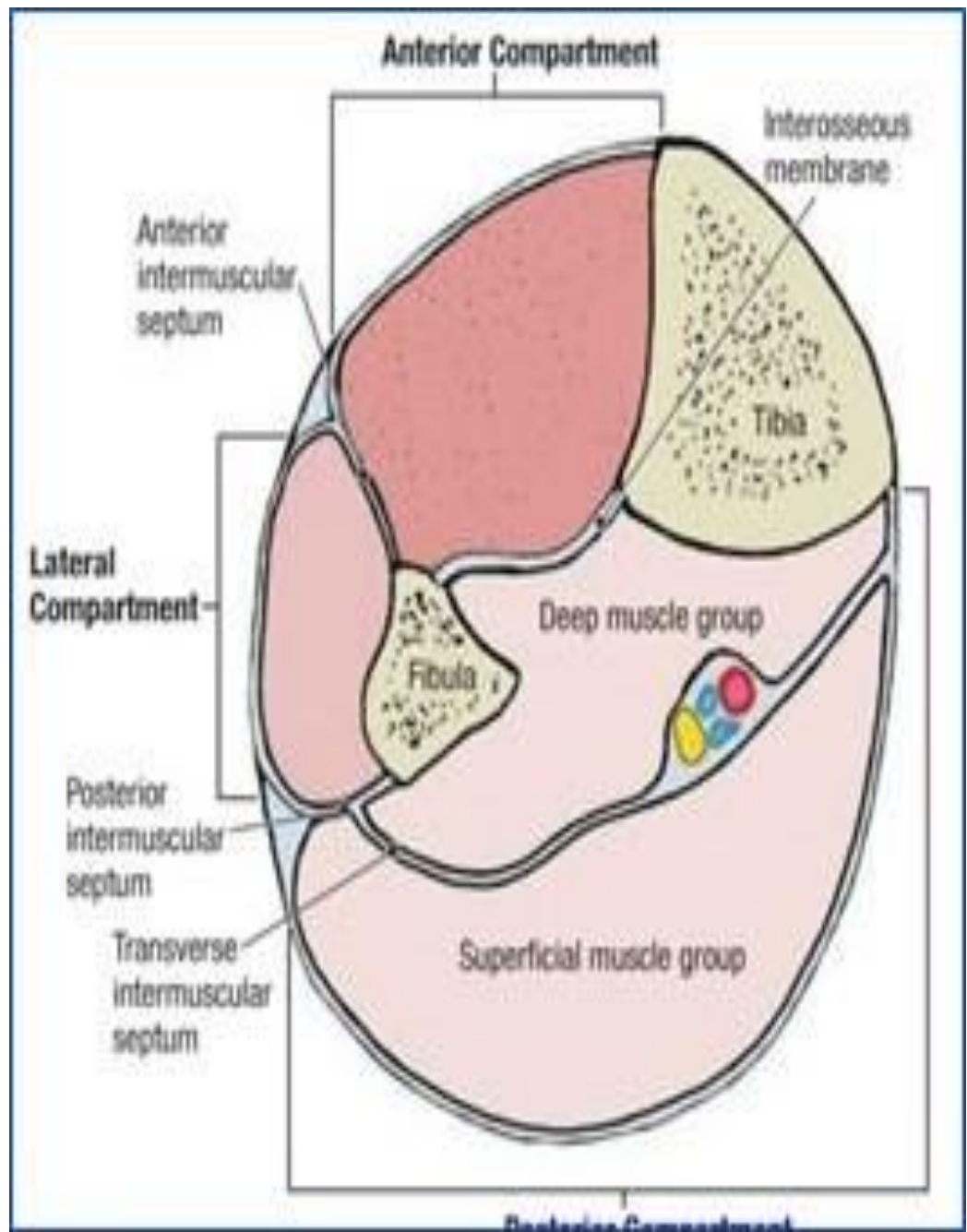
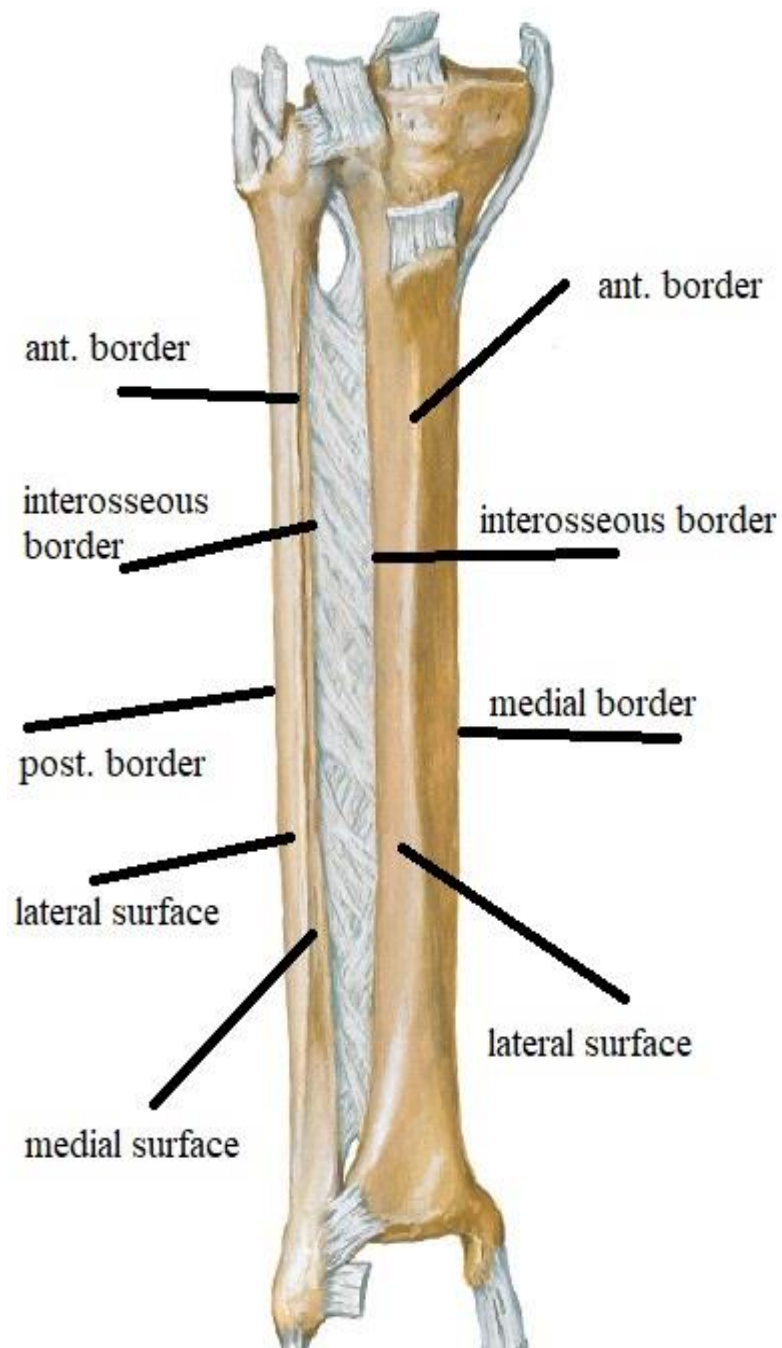
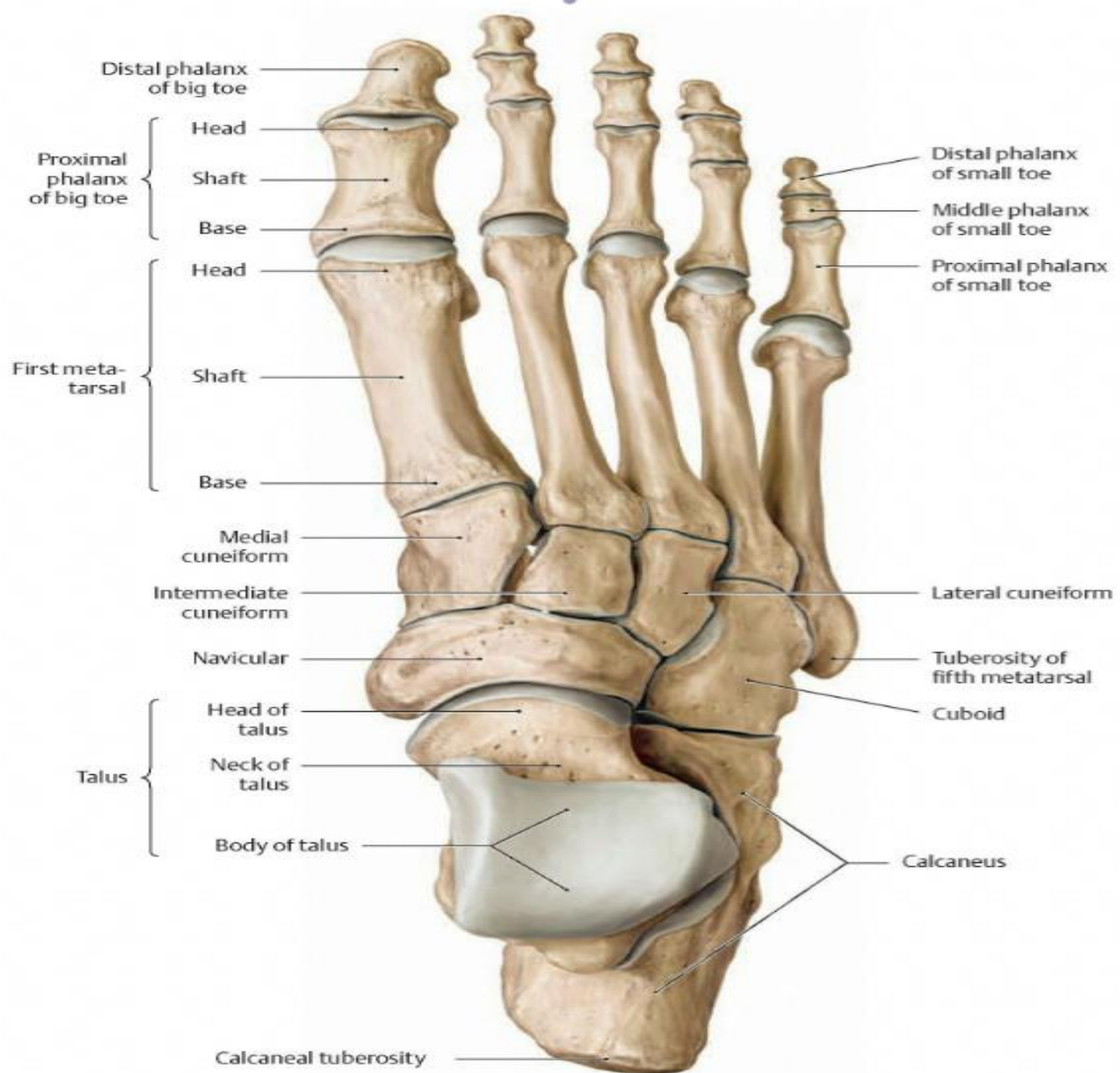


LEG

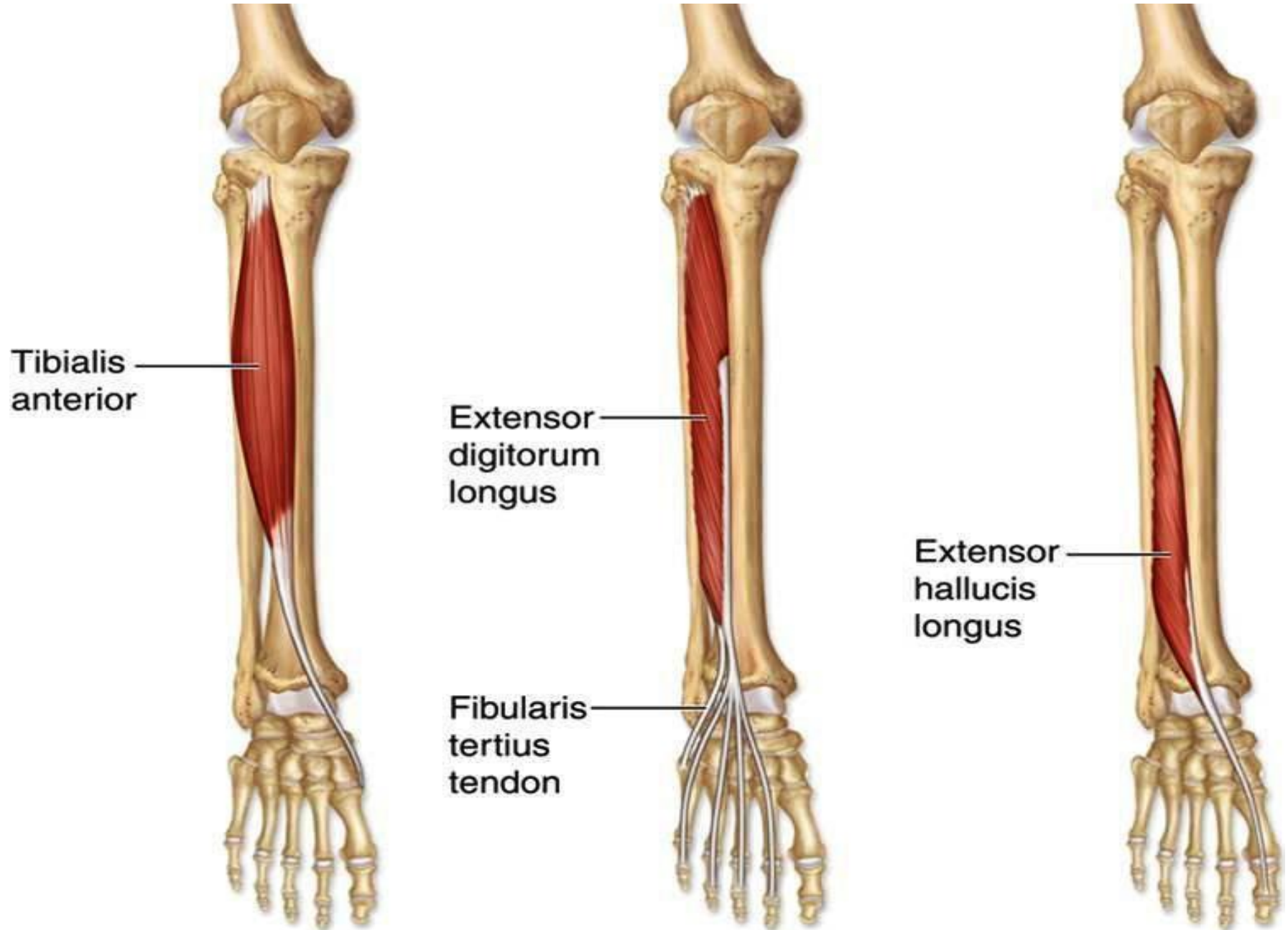


BY
DR ABULMAATY MOHAMED
ASSISTANT PROFESSOR
ANATOMY & EMBRYOLOGY
MUTAH UNIVERSITY





ANTERIOR COMPARTMENT OF THE LEG



ANTERIOR COMPARTMENT OF THE LEG

Muscles

Tibialis anterior:- most medial

O.: upper 1/2 of lateral surface of tibia

interosseous membrane

I.: medial cuneiform &

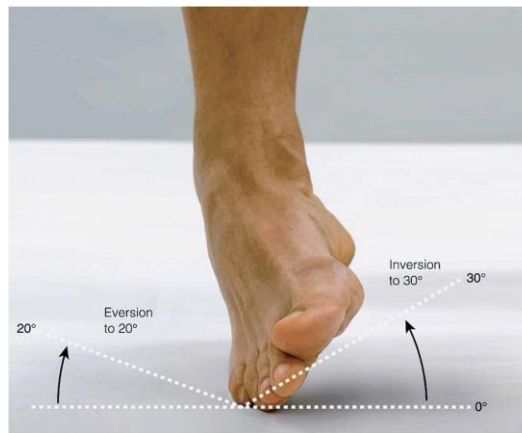
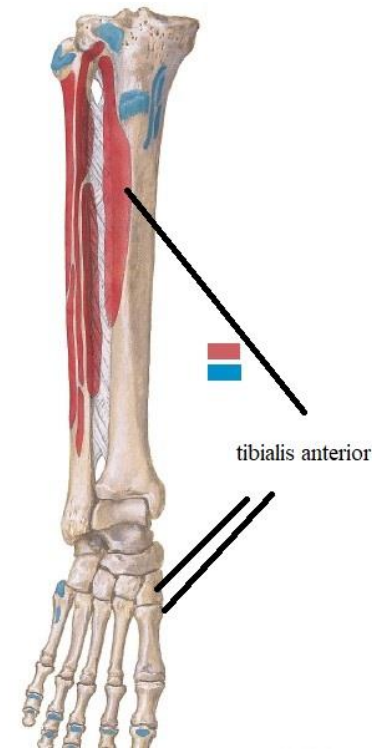
base of 1st metatarsal bone

A.: dorsiflexion of ankle

inversion of foot

support medial longitudinal arch of foot

N.S.: ant. tibial n. (deep peroneal n.)



(e)
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ANTERIOR COMPARTMENT OF THE LEG

Muscles

Extensor hallucis longus: overlapped by tibialis ant. and EDL

O.: middle 2 / 4 of medial surface of fibula

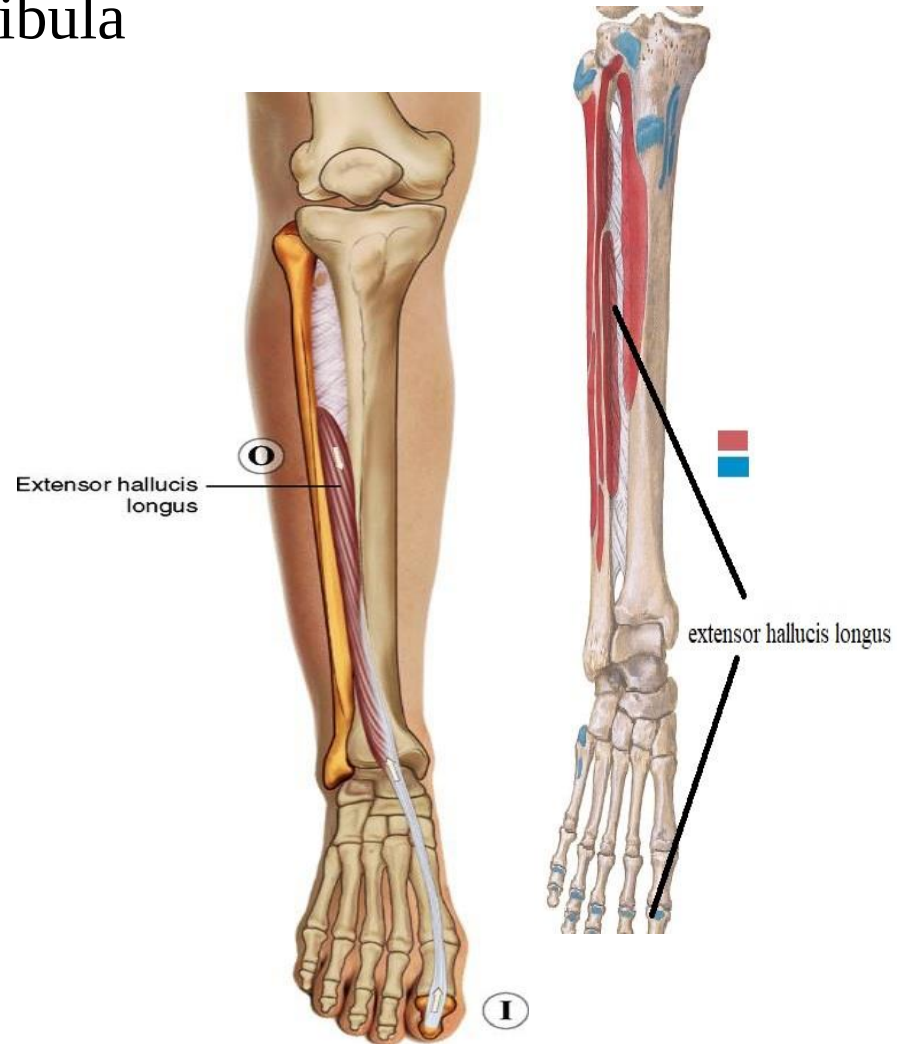
interosseous membrane

I.: base of terminal phalanx of big toe

A.: dorsiflexion of ankle

extension of big toe

N.S.: ant. tibial n. (deep peroneal n.)



ANTERIOR COMPARTMENT OF THE LEG

Muscles

Extensor digitorum longus: most lateral muscle

O.: upper 3 / 4 of medial surface of fibula

interosseous membrane

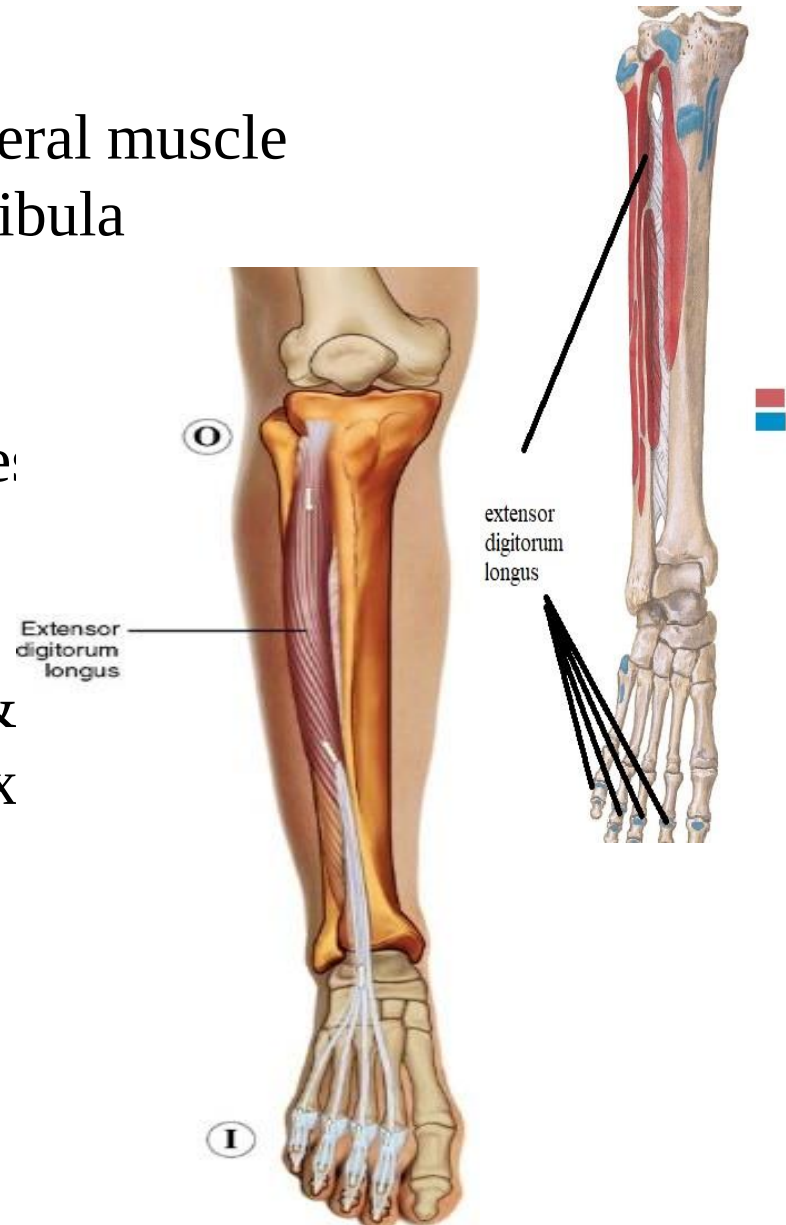
I.: divide into 4 tendons to
extensor expansions of lateral 4 toes

The expansion attach to dorsum
of proximal phalanx &
give central part to middle phalanx &
give collateral parts to distal phalanx

A.: dorsiflexion of ankle

Extension of lateral 4 toes

N.S.: ant. tibial n. (deep peroneal n.)



ANTERIOR COMPARTMENT OF THE LEG

Muscles

peroneus tertius: part of digitorum

O.: lower 1/4 of medial surface of fibula
interosseous membrane

I.: dorsum of base of 5th metatarsal bone

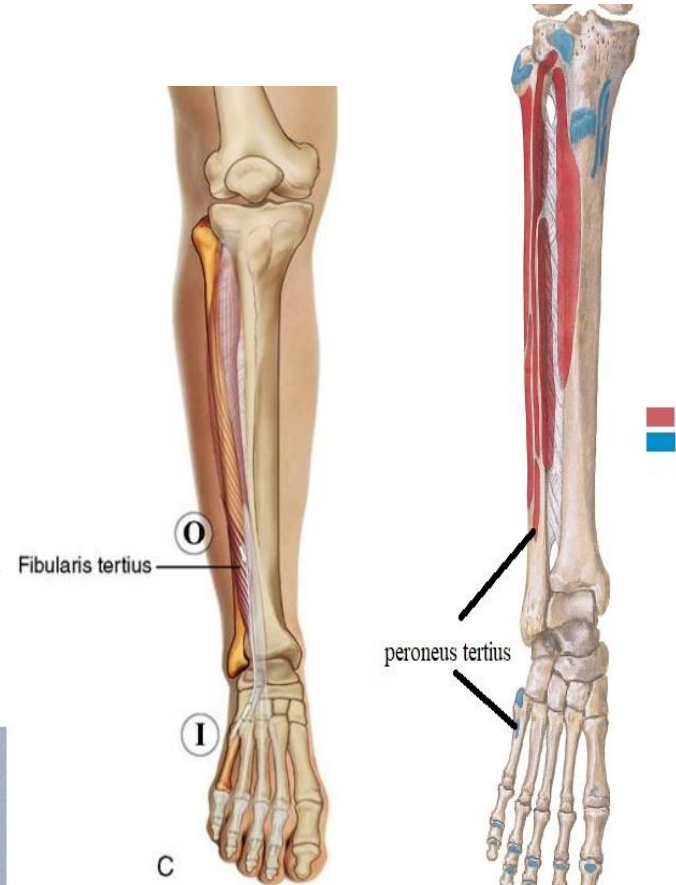
A.: dorsiflexion of ankle

eversion of foot: sole directed laterally

N. S. : by ant. tibial N (deep peroneal n.)

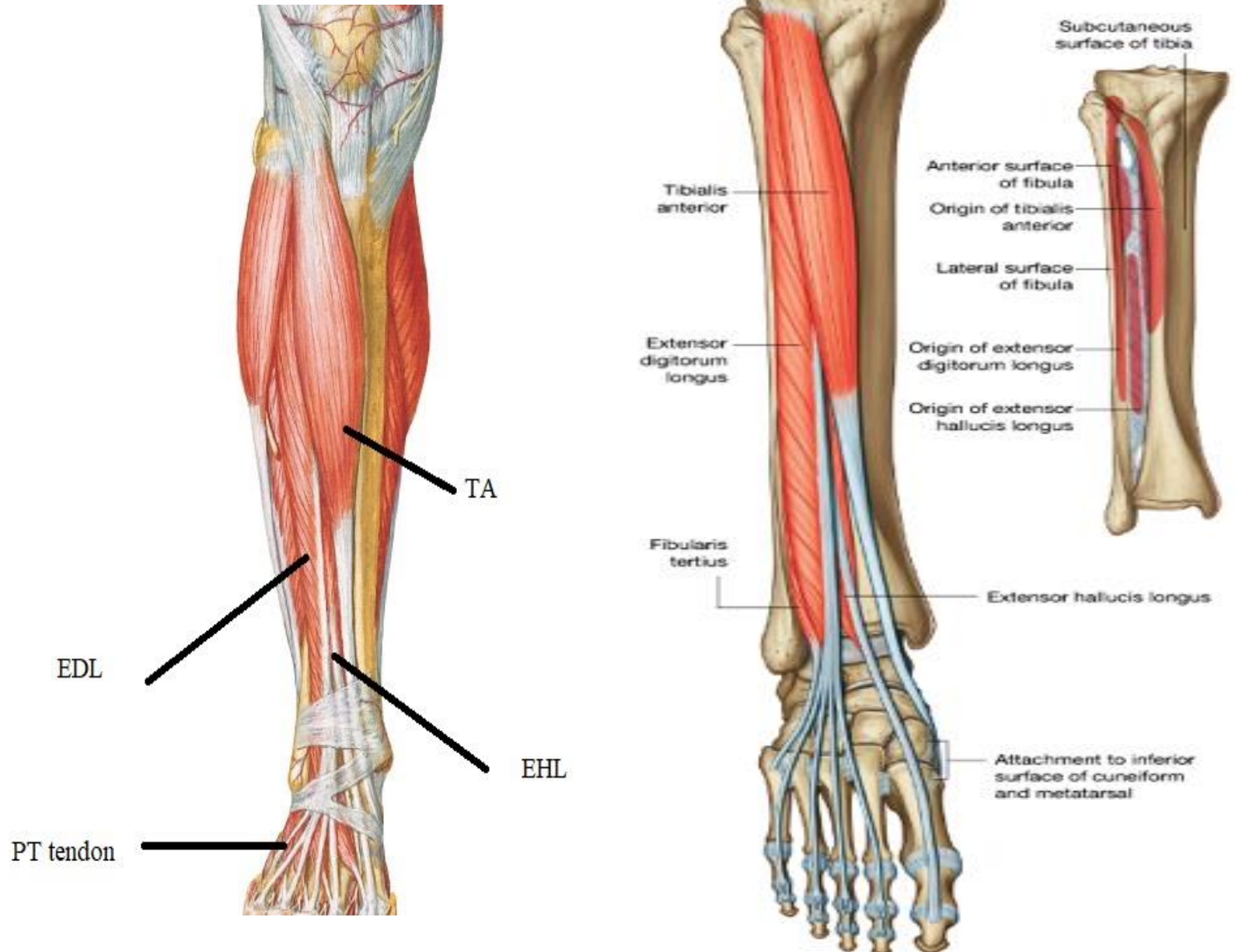


eversion



ANTERIOR COMPARTMENT OF THE LEG

Muscles



ANTERIOR COMPARTMENT OF THE LEG

ANT. TIBIAL ART.

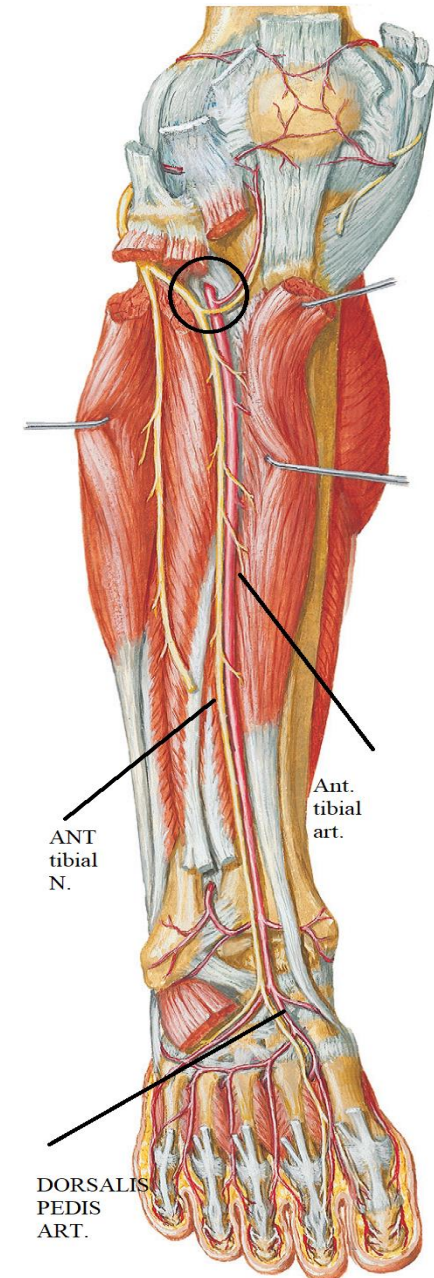
O.: smaller terminal br. of popliteal art.
at lower border of popliteus

C & R:

-at first it lies in post. compartment of leg then
pass forward through opening in upper part of
interosseous membrane to enter
ant. compartment of leg.

-descends in front interosseous membrane
with ant. tibial n.

E. : -midway () 2 malleoli, in front ankle
-continue as dorsalis pedis art.



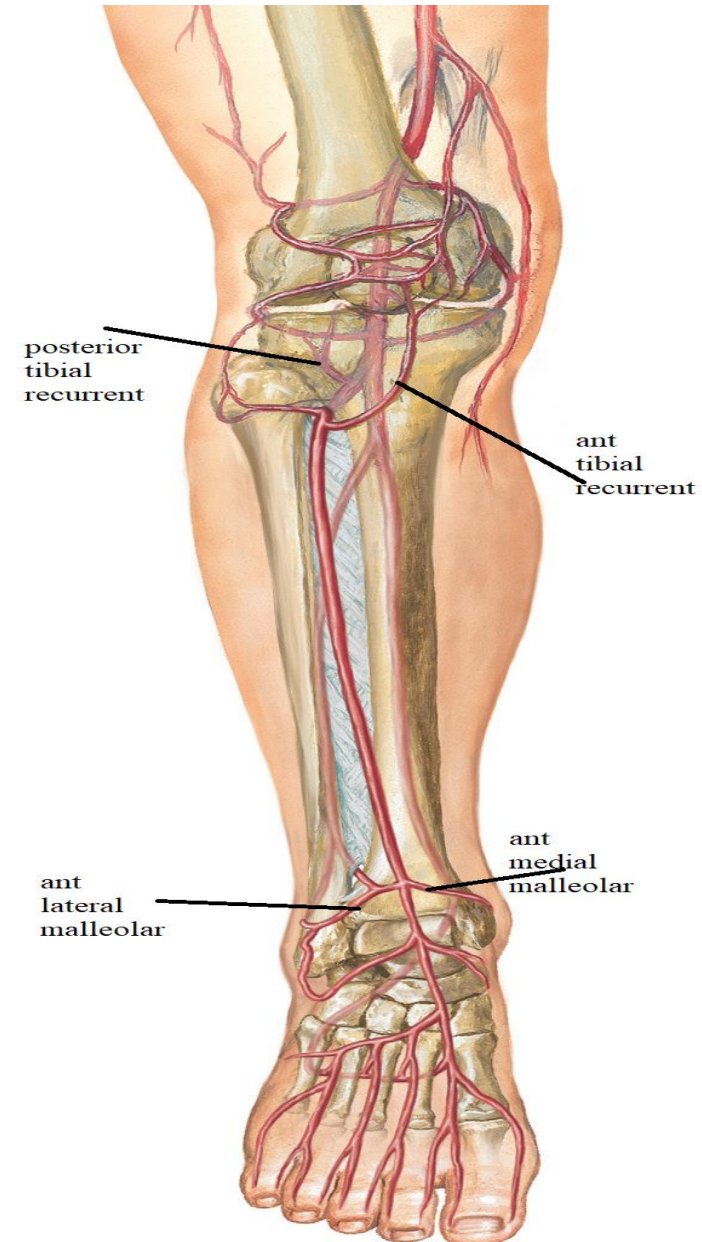
ANTERIOR COMPARTMENT OF THE LEG

ANT. TIBIAL ART.

Branches :

- muscular : to muscles of ant. Compartment
- articular
- post. tibial recurrent:
- ant. tibial recurrent:
- both share in anastomosis around knee
- ant. medial malleolar
- ant. lateral malleolar

both share in anastomosis around ankle



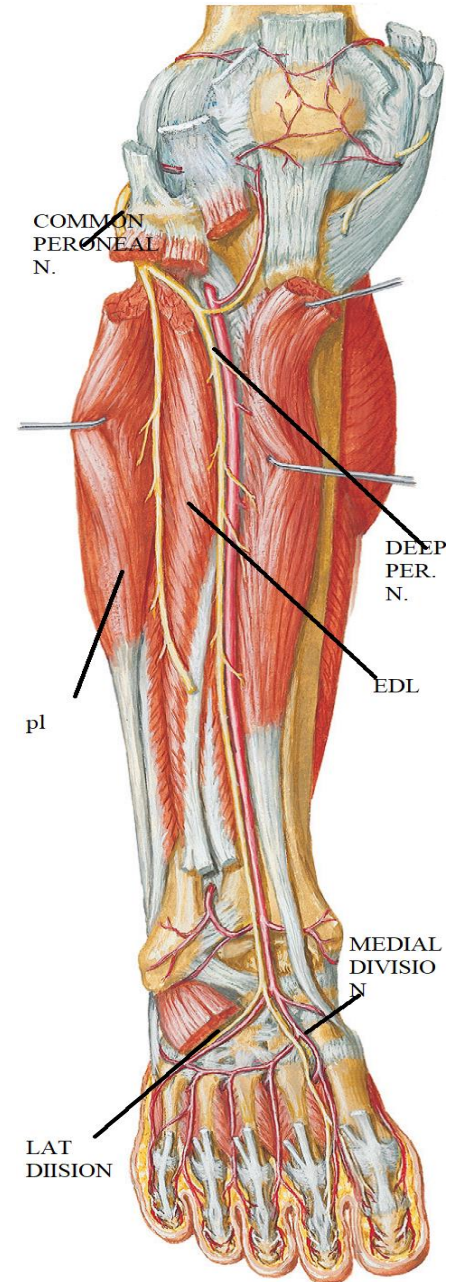
ANTERIOR COMPARTMENT OF THE LEG

ANT. TIBIAL N. (DEEP PERONEAL N.)

O.: terminal br. of common peroneal n.
on lateral side of neck of fibula
deep to peroneus longus (in lateral compartment)

C & R:

- pierce the ant. intermuscular septum to enter ant. compartment then
- run deep to ext. digit. longus to reach interosseous membrane
- descends lateral, superficial then lateral again to ant. tibial art
- ends distal to inferior extensor retinaculum below ankle giving medial & lateral divisions



ANTERIOR COMPARTMENT OF THE LEG

ANT. TIBIAL N. (DEEP PERONEAL N.)

Branches :

-muscular :

to muscles of ant. compartment

tibialis ant, ext. hallucis longus, ext. digit. longus ,
peroneus tertius

-articular : ankle joint

-2 terminal divisions : medial & lateral

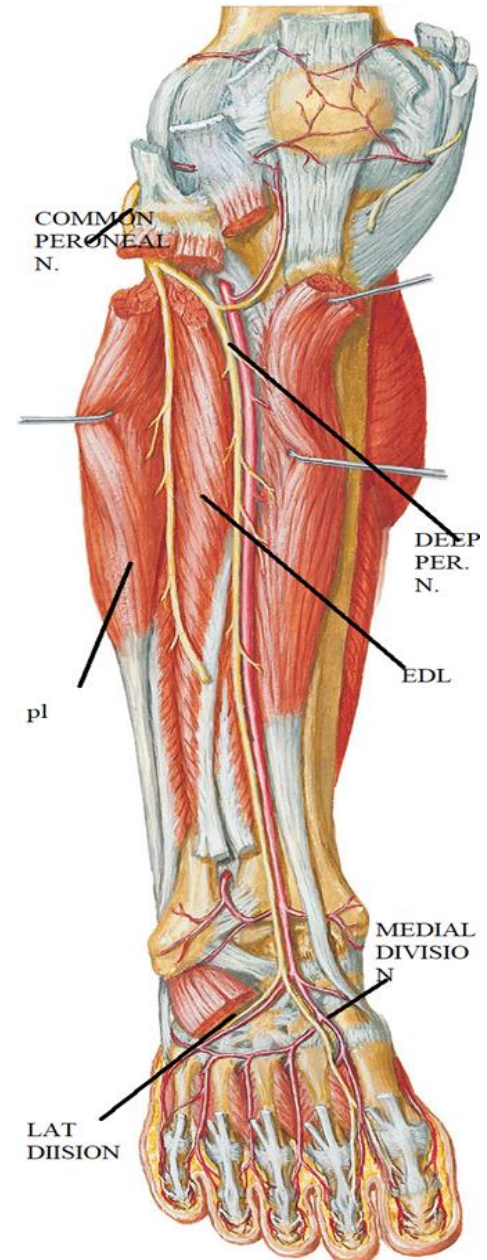
medial terminal br.

supply adjacent sides of big & 2nd toes

lateral terminal br.

supply ext. digitorum brevis

both nerves give articular branches to joints of foot



LATERAL COMPARTMENT OF THE LEG

Muscles

Peroneus (fibulas) brevis

O.: lower 2/3 of lateral surface of fibula

I.: pass behind then below lateral malleolus

Then on lateral surface of calcaneus to attach to tuberosity on base of 5th metatarsal

Peroneus (fibulas) longus

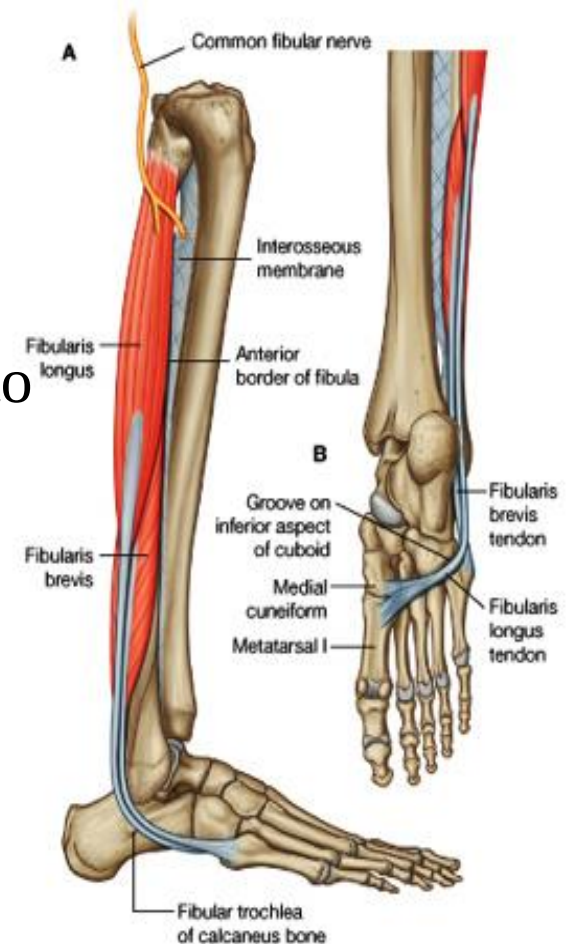
O.: upper 2 /3 of lateral surface of fibula

Front of head of fibula

I.: - pass behind then below lateral malleolus
separated from it by peroneus brevis

-then on lateral surface of calcaneus below peroneus brevis

-then medially in groove in plantar surface of cuboid to lateral surface of base of 1st metatarsal & medial cuneiform.



LATERAL COMPARTMENT OF THE LEG

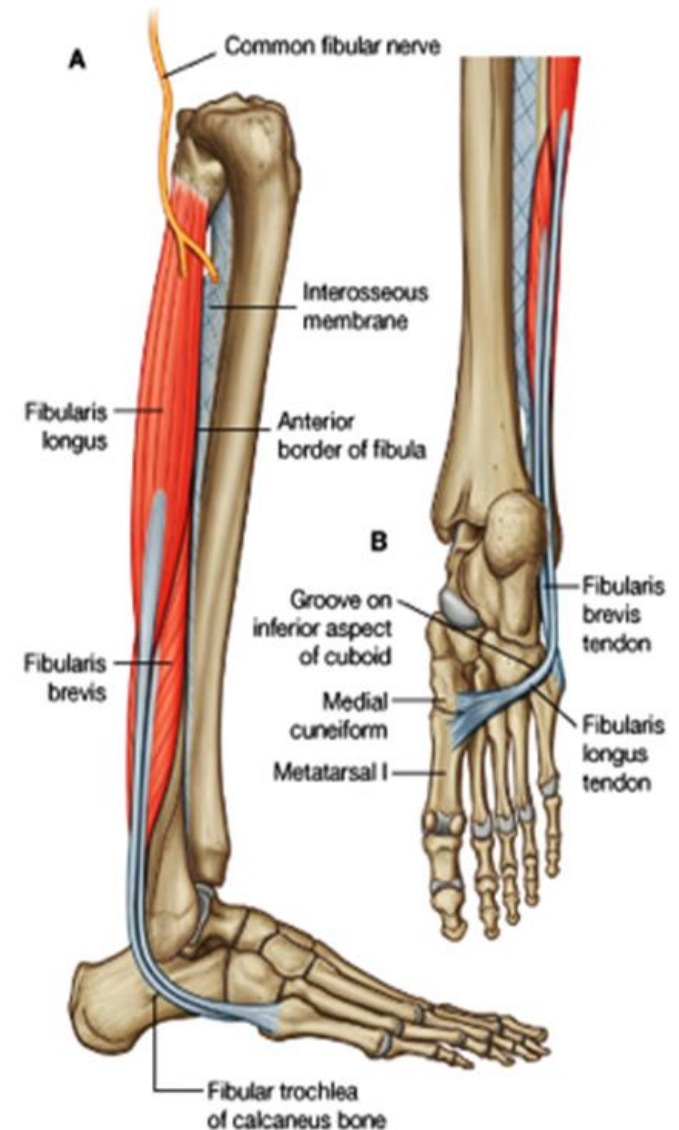
Muscles

Action :

eversion of foot

Maintain the lateral longit. Arch of foot

N.S : superficial peroneal n.
(musculo cutaneous n.)



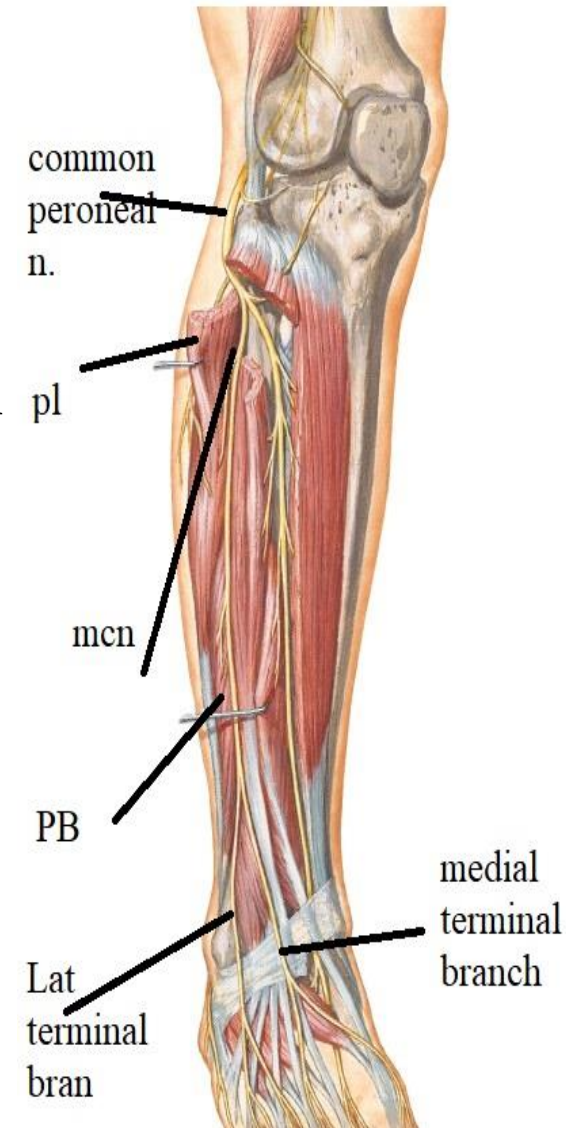
LATERAL COMPARTMENT OF THE LEG

SUPERFICIAL PERONEAL N. (MUSCULO CUTANEOUS N.)

O.: terminal br of common peroneal n. lateral to neck of fibula deep to to peroneus longus

C & r :

- descend inside peroneus longus
- Then () peroneus longus & brevis supplying them
- pierce deep fascia and descend in superficial fascia
- give medial & lateral terminal brs to dorsum of foot

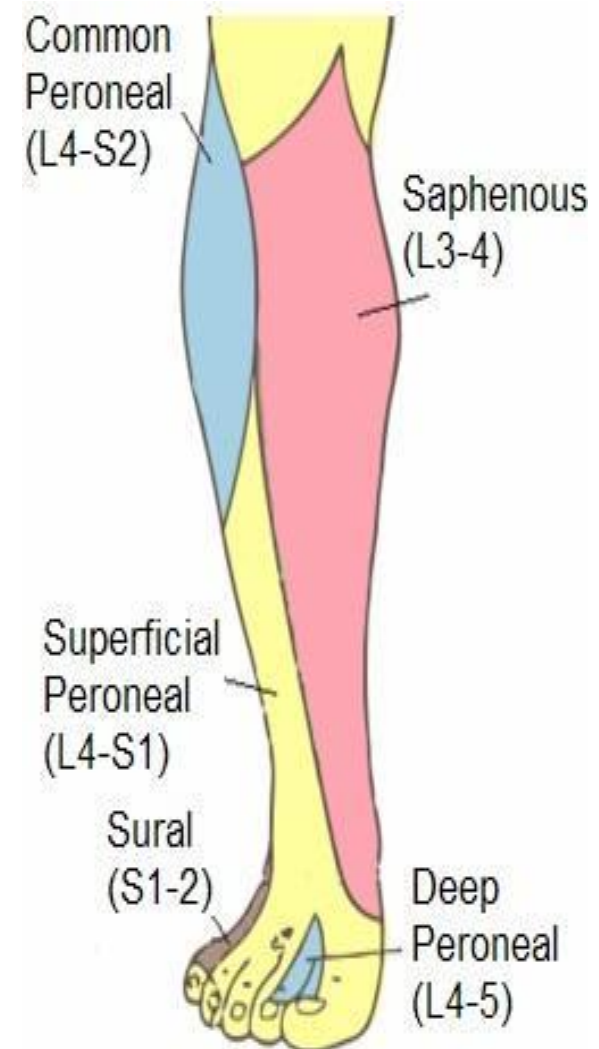


LATERAL COMPARTMENT OF THE LEG

SUPERFICIAL PERONEAL N. (MUSCULO CUTANEOUS N.)

branches :

- muscular** : to muscles of lateral compartment :
peroneus longus & brevis
- cutaneous brs**
- to lower 1/3 of front of leg.
- to dorsum of foot and toes except
 - 1-medial side of dorsum of foot till base of big toe
 - 2-adjacent side of 1st (big) & 2nd toes
 - 3-lateral side of dorsum of foot & little toe



INJURY OF COMMON PERONEAL NERVE

Cause: - Commonest is the fracture of neck of fibula

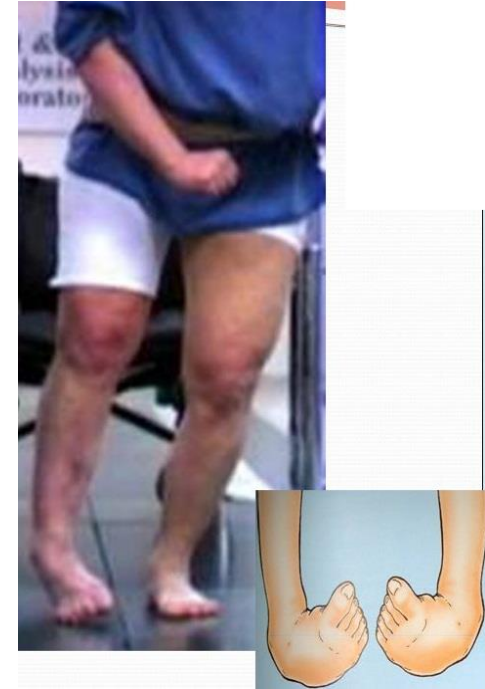
Motor effect:-

- 1-Paralysis of foot extensors (# deep peroneal)
leads to foot drop
- 2-Paralysis of foot evertors (# superficial peroneal)
leads to inversion of foot

Deformity called (talipes equino varus)

sensory effect:-

- 1-sensory loss in upper part of lateral side of leg (# lateral cut nerve of calf)
- 2- sensory loss in lower part of front of leg (# superficial peroneal)
- 3- sensory loss in dorsum of foot & toes (except???) (# superficial & deep peroneal)



THANK